

Hunters Point Naval Shipyard Radiological Program Update

Radiological Investigation

February 8, 2017



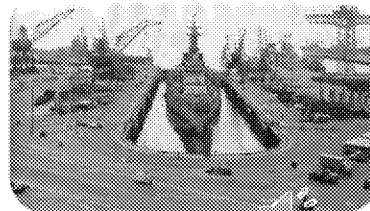
Hunters Point Naval Shipyard (HPNS) History



- Founded as a commercial dry dock in 1869 and owned by private companies
- Purchased by US Navy in 1939
- Leased in 1976 to Triple A Machine Shop
- Navy reclaimed property in 1986



HPNS dry docks
1940



USS Iowa in dry dock at HPNS
1953

Purpose of this Presentation



1. Provide general background information on radiological contamination at HPNS
2. Answer questions about the radiological data investigation
3. Share the plan that is underway
4. The Navy wants the community to know that the public is safe



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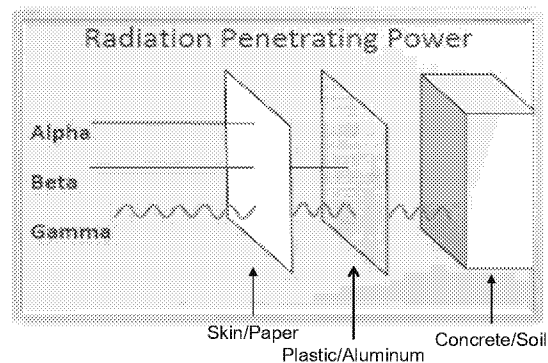
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What Is Radiation?



- Radiation is energy that comes from a source and travels through space and may be able to penetrate various materials
- What are the different types of radiation?
 - Light waves
 - Radio waves
 - X-rays
 - Microwaves
 - Particles and energy rays emitted from an atom



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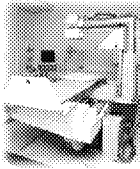
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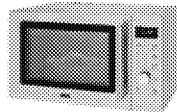
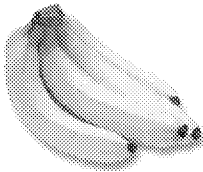
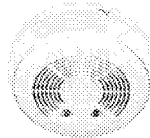
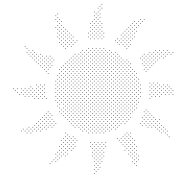
How Are We Exposed to Radiation?



Radiation is present all around us



- Natural radiation sources
- Radiation is in some common foods
- Radiation occurs in some man-made sources



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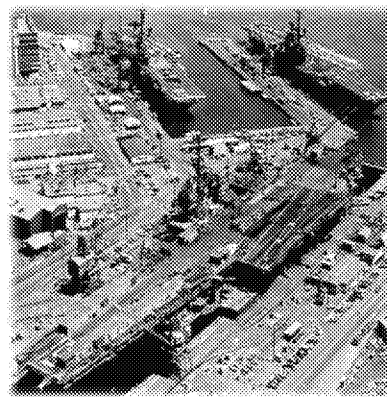
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Why is there radiation at HPNS?



Historical activities at HPNS

- Ship repair and maintenance
- Testing and decontaminating ships
- Navy Radiological Defense Laboratory (NRDL) testing
- Waste practices



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Where is radiation located at HPNS?



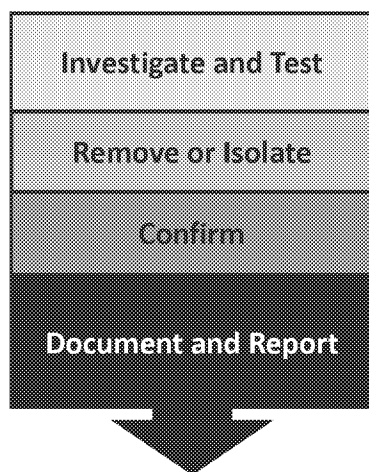
- Sites/areas identified as potentially contaminated with radiological compounds include:
 - Buildings with historical radiological use
 - Sanitary sewer and storm drain lines
 - Former disposal or burial areas
 - Piers or ship berths
- These areas have been cleaned up and are awaiting investigations before being transferred to the City for redevelopment



How does the Navy address radiation at HPNS?



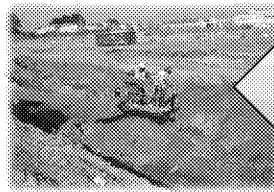
Radiological Cleanup Steps



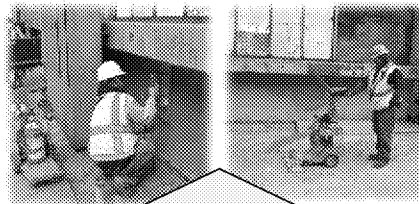
How does the Navy address radiation at HPNS?



- Soil sampling
- Scanning of areas/buildings
- Remove affected materials



Soil is sampled and analyzed



Building walls and floors are scanned for radiation

Soil, sewer and storm drain lines are removed



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2012 Radiological Data Investigation



What led to the 2012 investigation?

- In 2012, the Navy discovered that one of its radiological soil sampling contractors (Tetra Tech EC), had misrepresented radiological soil samples

What was done after discovery of the misrepresented data?

- The Nuclear Regulatory Commission (NRC) was notified
- An investigation was initiated
- New samples were collected from the areas in question
- Corrective actions were undertaken



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2016/2017 Radiological Data Investigations



Why are radiological sample results being questioned again?

- In 2016, a former Tetra Tech EC employee made new allegations of improper sampling and cleanup activities

How is the Navy addressing new allegations?

- The Navy has assembled a team of technical experts to evaluate information and implement a two phase process to validate existing data



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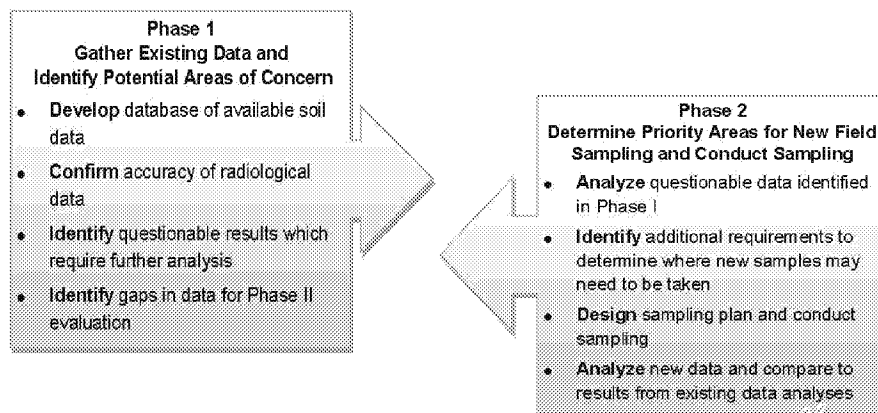
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Data investigations



A two-phase iterative process for reviewing data and conducting investigations is currently underway



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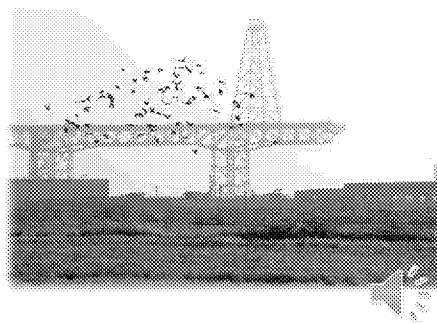
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Is the community safe?



- The Navy's first priority is to ensure public safety and environmental protection at HPNS
- Investigations show that people who live, work, and visit HPNS and adjacent properties are safe
- The Navy continues its commitment to clean all remaining property at HPNS before transfer to the City of San Francisco



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For more information...



Join the HPNS Mailing List



Send an email to
info@sfhpns.com



Leave a message on the
HPNS Information Line
(415) 295-4742

Navy Resources

City of San Francisco Main Library

100 Larkin Street, 5th Floor
Government Information Center
San Francisco, CA 94102
(415) 557-4400

Navy Website

- www.bracpmo.navy.mil
- Under "BRAC BASES", select "California"
 - Click on "Former Naval Shipyard Hunters Point"

Hunters Point Naval Shipyard Site Trailer

(near HPNS security entrance)
690 Hudson Avenue
San Francisco, CA 94124

Information on the Internet

American Nuclear Society
www.ans.org

U.S. Environmental Protection Agency
www.epa.gov

U.S. Nuclear Regulatory Commission
www.nrc.gov

World Health Organization
www.who.int

Radiation Answers
www.radiationanswers.org

American Council on Health and Science
www.acsh.org



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